

Proven by time

27+ years of food protection
and 2+ million active units made of
long lasting and innovative ingredients

AKV Electronic
Expansion Valve

Simple

Proven

Evolving

The safe choice

Modern cooling began with AKV - it still does

For almost three decades, Danfoss has been pioneering retail refrigeration and delivering food safety through industry leading components and cutting edge technology.

Danfoss brought the first AKV electronic expansion valve to the market more than 27 years ago, and since then the AKV has consolidated its position as the most used electronic expansion device with more than 2 million active valves in the field.

With an average minimum lifetime of 10 years or the equivalent of more than 50 million cycles (longest lasting valves have a lifetime of 20+ years) the Danfoss AKV is a testament to our underlying philosophy - keep it simple and keep it safe.

ENGINEERING
TOMORROW

Danfoss

1 provider for everything cooling

Danfoss is the leading manufacturer within retail refrigeration and the preferred supplier of industry leading components and technology.

With sales offices in more than 50 countries, we offer local support, globally – making access to know-how and applied expertise easy for you.

As a one-stop-shop, Danfoss offers a complete range of electronically operated valves and controllers, and our large product portfolio meets the needs of any modern supermarket.

We can help you design the best possible solution
for your next retail refrigeration project.

akv.danfoss.com

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ENGINEERING
TOMORROW

Danfoss

27+ years of real-life testing
Still the **safe choice**

Danfoss AKV for retail cooling

2+ mio.
active AKV units
worldwide
make Danfoss AKV
electronic expansion
valve the most used valve
within modern retail
cooling.



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Safety through simplicity



Timeless valve concept
Through three decades the AKV has proved its ability to deliver unmatched reliability and food safety

AKV electronic expansion valve – simply ahead of its time

Since the very beginning, the fundamental idea behind the Danfoss AKV electronic expansion valve has been to create a premium quality product with an exceptional reliability.

The simplicity and robustness of the Danfoss AKV expansion valve reduce possible failures in the field and ensure maximum food safety. It is easy to install and fully serviceable keeping maintenance cost at a minimum.

In a complex world with a growing demand for retail cooling, the Danfoss AKV expansion valve proves that simplicity and reliability are still key to meeting the fundamental demand for food safety.

Savings through evolution



10% energy improvement
compared to best in class TXV
thermostatic expansion valves
(up to 33% with full ADAP-KOOL®
system)

King of energy saving controls - to rule generations to come

Danfoss brought the first AKV electronic expansion valve to the market almost three decades ago together with the Danfoss ADAP-KOOL® controllers. Today more than 50,000 supermarkets are installed with the ADAP-KOOL® control and monitoring systems – a total store solution benefitting both business and environment.

Our industry leading 4th generation of intelligent control software and minimum stable superheat (MSS) algorithm ensure the lowest possible energy consumption and sustainable savings.

The ADAP-KOOL® has been designed to drive the standards within energy consumption through ongoing technology improvements and innovation - consolidating its impact now and for the future.